



## PERMIT TO OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner  
or Operator:

ID 126060

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

ETHYLENE OXIDE AERATION ROOM, HEATED, 124'-0" L X 70'-0" W X 26'-0" H, WITH 40,000 CFM RECIRCULATION AIR HANDLING BLOWER, AND 17,000 CFM MAKEUP AIR FAN, VENTED TO AN ETO ABATOR (CATALYTIC OXIDIZER)

**Conditions :**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO THE ETO CONTROL DEVICES THAT ARE IN COMPLIANCE WITH THE AQMD RULE 1405 AND HAVE BEEN ISSUED A PERMIT TO CONSTRUCT OR OPERATE BY THE AQMD.
4. THIS AERATION ROOM SHALL BE USED FOR DEGASING OF ETHYLENE OXIDE OF THE PRODUCTS STERILIZED AT THIS FACILITY ONLY.
5. THIS EQUIPMENT AND ALL THE DEVICES AND COMPONENTS WHICH ARE CONNECTED TO THIS EQUIPMENT SHALL BE LEAK TESTED EVERY SIX MONTHS USING THE LATEST CARB TEST METHOD DURING CONDITIONS OF MAXIMUM STERILANT GAS USE.
6. THERE SHALL BE NO STAGING OF STERILIZED PRODUCTS IN UNCONTROLLED AREAS OF THE PLANT. ANY TEST OR BIO INDICATOR REMOVAL SHALL BE CONDUCTED IN AN ENCLOSED LOCATION THAT IS VENTED TO AN ETO CONTROL EQUIPMENT.
7. THE OPERATOR SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN THE ETHYLENE OXIDE AIRBORNE TOXIC CONTROL MEASURE (ATCM) FOR STERILIZERS AND AERATORS, PARTS 1 AND 2 UNDER TITLE 17 OF CALIFORNIA CODE OF REGULATIONS, SECTIONS 93108 AND 93108.5 (17 CCR, SECTIONS 93108 AND 93108.5).



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**PERMIT TO OPERATE**

8. THE OPERATOR SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHA) FOR ETHYLENE OXIDE COMMERCIAL STERILIZATION AND FUMIGATION OPERATIONS UNDER CODE OF FEDERAL REGULATIONS, TITLE 40, PART 63 SUBPART O (40 CFR 63, SUBPART O).
9. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 4 AND 5. THE RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

**NOTICE**

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

*Dorris M. Bailey*

By Dorris M. Bailey/JY02

4/12/2014

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**South Coast Air Quality Management District**  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
G44856  
A/N 580004

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide Aeration Room, Heated, 59'-0" L x 71'-0" W x 26'-0" H, Vented to an ETO Abator (Catalytic Oxidizer)

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ETO control devices that are in compliance with the AQMD Rule 1405 and have been issued permit to construct or operate by the AQMD.
4. This aeration room shall be used for degassing of ethylene oxide (ETO) of the products sterilized in this facility only.
5. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas use.
6. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicator removal shall be conducted in enclosed environment that is vented to an ETO control equipment.
7. The operator of this equipment shall comply with all requirements specified in the Ethylene Oxide Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 & 93108.5).
8. The operator of this equipment shall comply with all requirements specified in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for ethylene oxide commercial sterilization and fumigation operations under Code of Federal Regulations, Title 40, Part 63 Subpart O (40 CFR 63, Subpart O).
9. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to the AQMD personnel upon request. At minimum the most recent two years of records shall be retained on site.



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South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178

Page 2  
Permit No.  
G44856  
A/N 580004

## PERMIT TO OPERATE

### NOTICE

In accordance with Rule 206, this Permit to Operate or copy shall be posted on or within 8 meters of the equipment.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

Executive Officer

By Dorris M. Bailey/DL06

2/3/2017



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South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
G45319  
A/N 590853

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide (EtO) Sterilizer Chamber No. 1, TRUMBO, Custom Made, with Internal Dimensions of 5' W. X 50' L. X 9'-10" H., Heated (Hot Water Jacket), with a 500 acfm Vacuum Blower vented to an EtO Scrubber, and 1000 acfm Back-Vent Blower vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ethylene oxide (EtO) control devices that are in compliance with SCAQMD Rule 1405 and have been issued a permit to construct or operate by SCAQMD.
4. The total amount of EtO used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The EtO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and the pounds of EtO used for each sterilization cycle shall be maintained for each EtO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicated removal shall be conducted in an enclosed environment that is vented to EtO control equipment.
9. The valves on EtO drums shall be completely closed when not in use. If closing of a drum valve cannot contain EtO, or if there's indication of an EtO leak from any part of an EtO drum, the drum shall be immediately moved to an enclosure that is vented to EtO control equipment.



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## PERMIT TO OPERATE

10. The operator of this equipment shall comply with all of the requirements specified in the EtO Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of the California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 and 93108.5).
11. The operator of this equipment shall comply with all of the requirements specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for EtO commercial sterilization and fumigation operations under the Code of Federal Regulations, Title 40, Part 63, Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to SCAQMD personnel upon request. At a minimum, the two most recent years of records shall be retained on site.

### NOTICE

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Executive Officer

By Dorris M. Bailey/JT07  
3/4/2017



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South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
G45310  
A/N 590852

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide (EtO) Sterilizer Chamber No. 2, TRUMBO, Custom Made, with Internal Dimensions of 5' W. X 50' L. X 9'-10" H., Heated (Hot Water Jacket), with a 500 acfm Vacuum Blower vented to an EtO Scrubber, and 1000 acfm Back-Vent Blower vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ethylene oxide (EtO) control devices that are in compliance with SCAQMD Rule 1405 and have been issued a permit to construct or operate by SCAQMD.
4. The total amount of EtO used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The EtO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and the pounds of EtO used for each sterilization cycle shall be maintained for each EtO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicated removal shall be conducted in an enclosed environment that is vented to EtO control equipment.
9. The valves on EtO drums shall be completely closed when not in use. If closing of a drum valve cannot contain EtO, or if there's indication of an EtO leak from any part of an EtO drum, the drum shall be immediately moved to an enclosure that is vented to EtO control equipment.



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## PERMIT TO OPERATE

10. The operator of this equipment shall comply with all of the requirements specified in the EtO Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of the California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 and 93108.5).
11. The operator of this equipment shall comply with all of the requirements specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for EtO commercial sterilization and fumigation operations under the Code of Federal Regulations, Title 40, Part 63, Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to SCAQMD personnel upon request. At a minimum, the two most recent years of records shall be retained on site.

### NOTICE

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Executive Officer

By Dorris M. Bailey/JT07  
3/3/2017



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21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
G45320  
A/N 590854

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received, by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide (EtO) Sterilizer Chamber No. 3, TRUMBO, Custom Made, with Internal Dimensions of 5' W. X 50' L. X 9'-10" H., Heated (Hot Water Jacket), with a 500 acfm Vacuum Blower vented to an EtO Scrubber, and 1000 acfm Back-Vent Blower vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ethylene oxide (EtO) control devices that are in compliance with SCAQMD Rule 1405 and have been issued a permit to construct or operate by SCAQMD.
4. The total amount of EtO used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The EtO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and the pounds of EtO used for each sterilization cycle shall be maintained for each EtO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicated removal shall be conducted in an enclosed environment that is vented to EtO control equipment.
9. The valves on EtO drums shall be completely closed when not in use. If closing of a drum valve cannot contain EtO, or if there's indication of an EtO leak from any part of an EtO drum, the drum shall be immediately moved to an enclosure that is vented to EtO control equipment.



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## PERMIT TO OPERATE

10. The operator of this equipment shall comply with all of the requirements specified in the EtO Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of the California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 and 93108.5).
11. The operator of this equipment shall comply with all of the requirements specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for EtO commercial sterilization and fumigation operations under the Code of Federal Regulations, Title 40, Part 63, Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to SCAQMD personnel upon request. At a minimum, the two most recent years of records shall be retained on site.

### NOTICE

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Executive Officer

By Dorris M. Bailey/JT07  
3/4/2017



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**South Coast Air Quality Management District**  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
G45321  
A/N 590855

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide (EtO) Sterilizer Chamber No. 4, TRUMBO, Custom Made, with Internal Dimensions of 5' W. X 50' L. X 9'-10" H., Heated (Hot Water Jacket), with a 500 acfm Vacuum Blower vented to an EtO Scrubber, and 1000 acfm Back-Vent Blower vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ethylene oxide (EtO) control devices that are in compliance with SCAQMD Rule 1405 and have been issued a permit to construct or operate by SCAQMD.
4. The total amount of EtO used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The EtO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and the pounds of EtO used for each sterilization cycle shall be maintained for each EtO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicated removal shall be conducted in an enclosed environment that is vented to EtO control equipment.
9. The valves on EtO drums shall be completely closed when not in use. If closing of a drum valve cannot contain EtO, or if there's indication of an EtO leak from any part of an EtO drum, the drum shall be immediately moved to an enclosure that is vented to EtO control equipment.



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## PERMIT TO OPERATE

10. The operator of this equipment shall comply with all of the requirements specified in the EtO Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of the California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 and 93108.5).
11. The operator of this equipment shall comply with all of the requirements specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for EtO commercial sterilization and fumigation operations under the Code of Federal Regulations, Title 40, Part 63, Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to SCAQMD personnel upon request. At a minimum, the two most recent years of records shall be retained on site.

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Executive Officer

By Dorris M. Bailey/JT07  
3/4/2017



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**South Coast Air Quality Management District**  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
**G45322**  
A/N 590856

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide (EtO) Sterilizer Chamber No. 5, TRUMBO, Custom Made, with Internal Dimensions of 5' W. X 50' L. X 9'-10" H., Heated (Hot Water Jacket), with a 500 acfm Vacuum Blower vented to an EtO Scrubber, and 1000 acfm Back-Vent Blower vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ethylene oxide (EtO) control devices that are in compliance with SCAQMD Rule 1405 and have been issued a permit to construct or operate by SCAQMD.
4. The total amount of EtO used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The EtO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and the pounds of EtO used for each sterilization cycle shall be maintained for each EtO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicated removal shall be conducted in an enclosed environment that is vented to EtO control equipment.
9. The valves on EtO drums shall be completely closed when not in use. If closing of a drum valve cannot contain EtO, or if there's indication of an EtO leak from any part of an EtO drum, the drum shall be immediately moved to an enclosure that is vented to EtO control equipment.



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## PERMIT TO OPERATE

10. The operator of this equipment shall comply with all of the requirements specified in the EtO Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of the California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 and 93108.5).
11. The operator of this equipment shall comply with all of the requirements specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for EtO commercial sterilization and fumigation operations under the Code of Federal Regulations, Title 40, Part 63, Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to SCAQMD personnel upon request. At a minimum, the two most recent years of records shall be retained on site.

### NOTICE

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Executive Officer

By Dorris M. Bailey/JT07  
3/4/2017



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South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
G45323  
A/N 590857

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide (EtO) Sterilizer Chamber No. 6, TRUMBO, Custom Made, with Internal Dimensions of 5' W. X 50' L. X 9'-10" H., Heated (Hot Water Jacket), with a 500 acfm Vacuum Blower vented to an EtO Scrubber, and 1000 acfm Back-Vent Blower vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ethylene oxide (EtO) control devices that are in compliance with SCAQMD Rule 1405 and have been issued a permit to construct or operate by SCAQMD.
4. The total amount of EtO used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The EtO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and the pounds of EtO used for each sterilization cycle shall be maintained for each EtO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicated removal shall be conducted in an enclosed environment that is vented to EtO control equipment.
9. The valves on EtO drums shall be completely closed when not in use. If closing of a drum valve cannot contain EtO, or if there's indication of an EtO leak from any part of an EtO drum, the drum shall be immediately moved to an enclosure that is vented to EtO control equipment.



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## PERMIT TO OPERATE

10. The operator of this equipment shall comply with all of the requirements specified in the EtO Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of the California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 and 93108.5).
11. The operator of this equipment shall comply with all of the requirements specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for EtO commercial sterilization and fumigation operations under the Code of Federal Regulations, Title 40, Part 63, Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to SCAQMD personnel upon request. At a minimum, the two most recent years of records shall be retained on site.

### NOTICE

In accordance with Rule 206, this Permit to Operate or copy shall be posted on or within 8 meters of the equipment.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

Executive Officer

By Dorris M. Bailey/JT07  
3/4/2017



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South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
G45324  
A/N 590858

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide (EtO) Sterilizer Chamber No. A, TRUMBO, Cycleon, with Internal Dimensions of 10' W. X 60' L. X 9'-10" H., Steam Heated, with a 550 acfm Vacuum Pump and 750 acfm Booster Pump vented to an EtO Scrubber, and a Back-Vent Blower vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ethylene oxide (EtO) control devices that are in compliance with SCAQMD Rule 1405 and have been issued a permit to construct or operate by SCAQMD.
4. The total amount of EtO used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The EtO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and the pounds of EtO used for each sterilization cycle shall be maintained for each EtO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicated removal shall be conducted in an enclosed environment that is vented to EtO control equipment.
9. The valves on EtO drums shall be completely closed when not in use. If closing of a drum valve cannot contain EtO, or if there's indication of an EtO leak from any part of an EtO drum, the drum shall be immediately moved to an enclosure that is vented to EtO control equipment.



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## PERMIT TO OPERATE

10. The operator of this equipment shall comply with all of the requirements specified in the EtO Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of the California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 and 93108.5).
11. The operator of this equipment shall comply with all of the requirements specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for EtO commercial sterilization and fumigation operations under the Code of Federal Regulations, Title 40, Part 63, Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to SCAQMD personnel upon request. At a minimum, the two most recent years of records shall be retained on site.

### NOTICE

In accordance with Rule 206, this Permit to Operate or copy shall be posted on or within 8 meters of the equipment.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

Executive Officer

By Dorris M. Bailey/JT07  
3/4/2017



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South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO CONSTRUCT/OPERATE**

Page 1  
Permit No.  
G53770  
A/N 579996

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301(d)) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide Sterilizer Chamber No. B, Trumbo, Model Cyclone, with Internal Dimensions of 9'- 6" W. x 55' L. x 9'- 10" H., Steam Heated, with a 550 cfm Vacuum Pump Vented to an ETO Scrubber, and a Back-vent Vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ETO control devices that are in compliance with the AQMD Rule 1405 and have been issued permit to construct or operate by the AQMD.
4. The total amount of ethylene oxide (ETO) used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The ETO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and pounds of ETO used for each sterilization cycle shall be maintained for each ETO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicator removal shall be conducted in enclosed environment that is vented to an ETO control equipment.
9. The valves on ethylene oxide drums shall be completely closed when not in use. If closing of a drum valve cannot contain ETO, or if there is an indication of ETO leak from any other part of an ETO drum, the drum shall be immediately moved to an enclosure that is vented to an ETO control equipment.



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**PERMIT TO CONSTRUCT/OPERATE**

10. The operator of this equipment shall comply with all requirements specified in the Ethylene Oxide Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 & 93108.5).
11. The operator of this equipment shall comply with all requirements specified in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for ethylene oxide commercial sterilization and fumigation operations under Code of Federal Regulations, Title 40, Part 63 Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to the AQMD personnel upon request. At minimum the most recent two years of records shall be retained on site.







**PERMIT TO CONSTRUCT/OPERATE**

**NOTICE**

In accordance with Rule 206, this Permit to Operate or copy shall be posted on or within 8 meters of the equipment.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

Executive Officer

BY LAKI TISOPULOS, PhD/DL06  
8/17/2018



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South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178  
**PERMIT TO OPERATE**

Page 1  
Permit No.  
G45325  
A/N 590859

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide (EtO) Sterilizer Chamber No. C, TRUMBO, Cycleon, with Internal Dimensions of 10' W. X 60' L. X 9'-10" H., Steam Heated, with a 550 acfm Vacuum Pump and 750 acfm Booster Pump vented to an EtO Scrubber, and a Back-Vent Blower vented to a Catalytic Oxidizer

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. This equipment shall not be operated unless it is vented to the ethylene oxide (EtO) control devices that are in compliance with SCAQMD Rule 1405 and have been issued a permit to construct or operate by SCAQMD.
4. The total amount of EtO used at this facility shall not exceed 657 tons per year averaged over any 12-month period.
5. The EtO purges from the sterilization chambers shall be evenly spread over the course of 24 hours per day.
6. A daily log indicating the date, the sterilization chamber identification number, the sterilization start-up and completion time, the time of the day when the chamber is purged, and the pounds of EtO used for each sterilization cycle shall be maintained for each EtO sterilization chamber.
7. This equipment and all the devices and components which are connected to this equipment shall be leak tested every six months using the latest CARB test method during conditions of maximum sterilant gas flow.
8. There shall be no staging or sterilized products in an uncontrolled environment. Any test or bio indicated removal shall be conducted in an enclosed environment that is vented to EtO control equipment.
9. The valves on EtO drums shall be completely closed when not in use. If closing of a drum valve cannot contain EtO, or if there's indication of an EtO leak from any part of an EtO drum, the drum shall be immediately moved to an enclosure that is vented to EtO control equipment.



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## PERMIT TO OPERATE

10. The operator of this equipment shall comply with all of the requirements specified in the EtO Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of the California Code of Regulations, Sections 93108 and 93108.5 (17 CCR, Sections 93108 and 93108.5).
11. The operator of this equipment shall comply with all of the requirements specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for EtO commercial sterilization and fumigation operations under the Code of Federal Regulations, Title 40, Part 63, Subpart O (40 CFR 63, Subpart O).
12. Records of leak tests, maintenance and corrective actions, and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to SCAQMD personnel upon request. At a minimum, the two most recent years of records shall be retained on site.

### NOTICE

In accordance with Rule 206, this Permit to Operate or copy shall be posted on or within 8 meters of the equipment.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

Executive Officer

By Dorris M. Bailey/JT07  
3/4/2017



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South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178

PERMIT TO OPERATE

Page 1  
Permit No.  
R-G47352  
A/N 555347

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner  
or Operator:

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

Equipment Location: 687 WANAMAKER AVE, ONTARIO, CA 91761

Equipment Description :

AIR POLLUTION CONTROL SYSTEM, ABATOR DONALDSON CONSISTING OF:

1. ABATOR, DONALDSON, WITH A PREFILTER RATED AT 80% MINIMUM CONTROL EFFICIENCY, A HEAT EXCHANGER, AND A CATALYTIC BED WITH 112 MANGANESE BASED CATALYTIC TRAYS
2. ONE ECLIPSE LINNOX BURNERS, NATURAL GAS FIRED, RATED AT 4,500,000 BTU PER HOUR, WITH A 7.5 HP COMBUSTION AIR BLOWER
3. EXHAUST SYSTEM WITH A 250 HP BLOWER, 25,000 CFM. VENTING AND CONTROLLING OFF GASES FROM EIGHT RETORT BACKDRAFT VENTS AND AN AERATION ROOM

Conditions :

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
3. THE TEMPERATURE OF THE CATALYST BED SHALL BE MAINTAINED AT NO LESS THAN 280 DEGREES FAHRENHEIT AS INDICATED BY A PROPER TEMPERATURE RECORDER.
4. AT LEAST ONCE A DAY THE CATALYST BED TEMPERATURE SHALL BE RECORDED.
5. A PRESSURE DIFFERENTIAL GAUGE SHALL BE INSTALLED AND MAINTAINED TO MEASURE THE TOTAL PRESSURE DIFFERENTIAL IN INCHES OF WATER COLUMN ACROSS THE CONTROL EQUIPMENT. THE TOTAL PRESSURE DIFFERENTIAL SHALL NOT EXCEED 30 INCHES OF WATER COLUMN.
6. THE STACK HEIGHT OF THIS CONTROL SYSTEM SHALL NOT BE LESS THAN 45 FEET FROM THE GROUND, AND THE STACK DIAMETER SHALL NOT BE GREATER THAN 36 INCHES.



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**PERMIT TO OPERATE**

7. THIS CONTROL SYSTEM AND ALL THE DEVICES AND COMPONENTS WHICH ARE CONNECTED TO THIS SYSTEM SHALL BE LEAK TESTED EVERY SIX MONTHS USING THE LATEST CARB TEST METHOD DURING CONDITIONS OF MAXIMUM STERILANT GAS FLOW.
8. AT LEAST ONCE EVERY CALENDAR YEAR, SOURCE TESTS SHALL BE CONDUCTED TO VERIFY COMPLIANCE WITH REQUIRED ETO EMISSION CONTROL EFFICIENCY OF THIS EQUIPMENT. RULE 1405 REQUIRES THIS CONTROL SYSTEM SHALL ACHIEVE 99 PERCENT OR BETTER ETO EMISSION CONTROL EFFICIENCY.
9. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN CARB ETHYLENE OXIDE AIR BORNE TOXIC CONTROL MEASURE (ATCM) FOR STERILIZERS AND AERATORS, PARTS 1 AND 2 UNDER TITLE 17 OF CALIFORNIA CODE OF REGULATIONS, SECTIONS 93108 AND 93108.5 (17 CCR, SECTIONS 93108 & 93108.5).
10. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR ETHYLENE OXIDE COMMERCIAL STERILIZATION AND FUMIGATION OPERATIONS UNDER CODE OF FEDERAL REGULATIONS, TITLE 40, PART 63 SUBPART O (40 CFR 63, SUBPART O).
11. THE BURNER OF THIS CONTROL SYSTEM SHALL COMPLY WITH THE FOLLOWING EMISSION LIMITS:

NOX: 60 PPM @ 3% O<sub>2</sub>

CO: 400 PPM @ 3% O<sub>2</sub>

THE EMISSION LIMITS APPLY SOLELY WHEN BURNING 100% NATURAL GAS FUEL, AND NOT WHEN THE BURNER IS INCINERATING AIR TOXICS, VOCs, OR OTHER VAPORS.

12. THE OWNER OR OPERATOR OF THIS CONTROL SYSTEM SHALL CONDUCT ANNUAL PERFORMANCE TESTS USING THE LATEST CARB TEST METHOD UNDER NORMAL OPERATING CONDITIONS. WITHIN 60 DAYS AFTER COMPLETION OF THE TESTS, TEST REPORTS INCLUDING BUT NOT LIMITED TO THE TESTING CONDITIONS, INLET AND OUTLET ETO CONCENTRATIONS AND MASS EMISSION RATES, AND THE TEMPERATURES AT THE INLET AND OUTLET OF THE CATALYTIC BED SHALL BE SUBMITTED TO THE AQMD. COPIES OF SEMI-ANNUAL LEAK TEST RESULTS SHALL ALSO BE SUBMITTED TO THE AQMD ALONG WITH THE ANNUAL SOURCE TEST REPORT.
13. RECORDS OF LEAK TESTS, SOURCE TESTS AND OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST. AT MINIMUM THE MOST RECENT TWO YEARS OF RECORDS SHALL BE RETAINED ON SITE.







South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4178

Page 3  
Permit No.  
R-G47352  
A/N 555347

## PERMIT TO OPERATE

**THIS PERMIT TO OPERATE R-G47352 SUPERSEDES PERMIT TO OPERATE G47352 ISSUED 7/14/2017**

### NOTICE

In accordance with Rule 206, this Permit to Operate or copy shall be posted on or within 8 meters of the equipment.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

Executive Officer

BY LAKI TISOPULOS, PhD/DL06  
12/21/2017



South Coast Air Quality Management District  
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**PERMIT TO OPERATE**

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner  
or Operator:**

STERIGENICS US, LLC  
2015 SPRING RD, STE 650  
OAK BROOK, IL 60523

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

Ethylene Oxide Air Pollution Control System consisting of:

1. Recuperative Catalytic Oxidizer, Pollution Systems, Model No. Catalytic Oxidizer- RCO22, with a Preheater, a Heat Exchanger, and a catalytic bed with Carulite 500 or equivalent catalyst
2. One Eclipse Burner, Model No. Linnox ULE Natural Gas Fired, rated at 4,500,000 BTU per hour
3. Exhaust System with a 150 HP blower, 22,000 cfm, Venting and Controlling off gases from Nine ETO Sterilizer Chambers Backdraft Vents and two Aeration Rooms

**Conditions :**

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. A continuous temperature measuring/recording device shall be maintained to monitor and record the outlet temperature of the catalyst beds.
4. The stack height of this control system shall not be less than 45 feet from the ground, and the stack diameter shall not be greater than 36 inches.
5. This control system and all the devices and components which are connected to this system shall be leak tested every six months using the latest carb test method during conditions of maximum sterilant gas flow.
6. At least once every calendar year thereafter, source tests shall be conducted to verify compliance with required ETO emission control efficiency of this equipment. Rule 1405 requires this control system shall achieve 99 percent or better ETO emission control efficiency. Source testing shall be conducted in accordance with test protocols approved by AQMD.



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**PERMIT TO OPERATE**

7. The operator of this equipment shall comply with all requirements specified in CARB Ethylene Oxide Airborne Toxic Control Measure (ATCM) for sterilizers and aerators, Parts 1 and 2 under Title 17 of California Code of Regulations, sections 93108 and 93108.5 (17 CCR, Sections 93108 & 93108.5).
8. The operator of this equipment shall comply with all requirements specified in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for ethylene oxide commercial sterilization and fumigation operations under Code of Federal Regulations, title 40, part 63 subpart o (40CFR 63, Ssubpart O).
9. The burner of this control system shall comply with the following emission limits:  
NO<sub>x</sub>: 30 ppm @ 3% O<sub>2</sub>  
CO: 250 ppm @ 3% O<sub>2</sub>

The emission limits apply solely when burning 100% natural gas fuel, and not when the burner is incinerating air toxics, VOCs, or other vapors.

10. Records of leak tests, source tests and other records required by this permit shall be maintained on file for a minimum of five years and shall be made available to the AQMD personnel upon request. At the minimum the most recent two years of records shall be retained on site.







## PERMIT TO OPERATE

### NOTICE

In accordance with Rule 206, this Permit to Operate or copy shall be posted on or within 8 meters of the equipment.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

Executive Officer

BY LAKI TISOPULOS, PhD/DL06  
5/19/2018







## PERMIT TO OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.  
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner  
or Operator:

STERIGENICS US, LLC  
687 S WANAMAKER AVE  
ONTARIO, CA 91761

ID 126060

**Equipment Location:** 687 WANAMAKER AVE, ONTARIO, CA 91761

**Equipment Description :**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. PACKED TOWER CHEMICAL SCRUBBER, CEILCOTE, MODEL NO. SPT-48-168, 4'-0" DIAMETER AND 23'-4" HIGH, WITH 14 FEET DEEP BED WITH NO. 1 TELLERETTE PACKING.
2. REACTION TANK, 10'-0" DIAMETER AND 10'-3" HIGH, 5000 GALLONS WORKING CAPACITY, WITH TWO 10 HP, 151 GPM RECIRCULATION PUMPS (ONE STANDBY).
3. EXHAUST FAN, 3 HP, 2000 CFM CAPACITY, VENTING EIGHT STERILIZATION CHAMBERS.

**Conditions :**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
3. THIS CONTROL EQUIPMENT SHALL BE EQUIPPED WITH A DIFFERENTIAL PRESSURE GAUGE TO INDICATE THE PRESSURE DROP ACROSS THE SCRUBBER AIR STREAM. THE PRESSURE DROP ACROSS THE SCRUBBER SHALL BE SET AND MAINTAINED ACORDING TO THE MANUFACTURER SPECIFICATION WHICH RESULTS IN 99.9% REMOVAL EFFICIENCY OR BETTER DURING THE ENTIRE PURGE CYCLE.
4. THIS CONTROL EQUIPMENT SHALL BE EQUIPPED WITH A FLOW METER TO MEASURE THE FLOW RATE OF THE SCRUBBING SOLUTION IN GALLONS PER MINUTE. THE FLOW RATE SHALL BE SET AND MAINTAINED ACORDING TO THE MANUFACTURER SPECIFICATION WHICH RESULTS IN 99.9% REMOVAL EFFICIENCY OR BETTER DURING THE ENTIRE PURGE CYCLE.
5. THIS CONTROL EQUIPMENT SHALL BE EQUIPPED WITH A PH METER TO ACCURATELY INDICATE THE PH OF THE SCRUBBING SOLUTION USED IN THE SCRUBBER. THE PH LEVEL SHALL BE MAINTAINED BETWEEN 0.3 AND 1.3 DURING THE ENTIRE PURGE CYCLE.



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## PERMIT TO OPERATE

6. THIS CONTROL SYSTEM AND ALL THE DEVICES AND COMPONENTS WHICH ARE CONNECTED TO THIS SYSTEM SHALL BE LEAK TESTED EVERY SIX MONTHS USING THE LATEST CARB TEST METHOD DURING CONDITIONS OF MAXIMUM STERILANT GAS FLOW.
7. THE ETO PURGE FROM THE ETO CHAMBERS SHALL BE EVENLY SPREAD OVER THE COURSE OF 24 HOUR PER DAY. RECORDS INDICATING THE DATE, CHAMBER IDENTIFICATION NUMBER, POUNDS OF ETHYLENE OXIDE USED IN EACH CYCLE, AND THE TIME OF THE DAY WHEN THE CHAMBER IS PURGED SHALL BE RECORDED.
8. AT LEAST ONCE A DAY THE SCRUBBING SOLUTION PH LEVEL, SCRUBBING SOLUTION VOLUME FLOW RATE, AND THE PRESSURE DIFFERENTIAL ACROSS THE SCRUBBER SHALL BE RECORDED.
9. THE TOTAL MONTHLY AND ANNUAL AMOUNT OF ETHYLENE OXIDE PURCHASED AND USED BY THIS FACILITY SHALL BE RECORDED.
10. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH THE MONITORING REQUIREMENTS OF CARB ETHYLENE OXIDE AIR BORNE TOXIC CONTROL MEASURE (ATCM) FOR STERILIZERS AND AERATORS.
11. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH THE MONITORING REQUIREMENTS OF EPA ETHYLENE OXIDE COMMERCIAL STERILIZATION AND FUMIGATION NESHAP.
12. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 6, 7, 8, 9, 10, AND 11. THE RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.



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SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 Copley Drive, Diamond Bar, CA 91765

Page 3  
Permit No.  
F98585  
A/N 378307

## PERMIT TO OPERATE

### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

A handwritten signature in black ink, reading 'Dorris M. Bailey', is positioned above the typed name.

By Dorris M. Bailey/JY02

8/20/2008



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